

CLAIMS

It is claimed:

1        1. In a wireless network system comprising a wired backbone network, an  
2 access point, and one or more associated wireless unit data coupled to the access point  
3 by way of a wireless transmission medium, a method of enabling fragmentation of data  
4 packet above a fragmentation threshold in said one or more wireless units, comprising  
5 transmitting a message to said one or more wireless unit having a first control data that  
6 causes said one or more wireless units to implement fragmentation threshold in  
7 transmitting data packets to said access point.

1        2. The method of claim 1, wherein said message comprises a multicast data  
2 packet intended for said one or more associated wireless units.

1        3. The method of claim 1, wherein said message further includes a  
2 specified fragmentation threshold to be used by said one or more wireless units.

1        4. The method of claim 1, wherein said message further includes a second  
2 control data that causes said one or more wireless units to use request to send (RTS)  
3 and clear to send (CTS) in the transmission of data to said access point.

1        5. An access point having a logic circuit to transmit a message to one or  
2 more associated wireless unit, wherein said message includes a first control data that  
3 causes said one or more associated wireless units to implement fragmentation threshold  
4 in transmitting data packets to said access point.

1        6. The access point of claim 5, wherein said message comprises a multicast  
2 data packet intended for said one or more associated wireless units.

1        7. The access point of claim 5, wherein said message further includes a  
2 specified fragmentation threshold to be used by said one or more wireless units.

1           8.       The access point of claim 5, wherein said message further includes a  
2 second control data that causes said one or more wireless units to use request to send  
3 (RTS) and clear to send (CTS) in the transmission of data to said access point.

1           9.       A machine readable medium including a software routine to control a  
2 logic circuit to transmit a message to one or more associated wireless unit, wherein said  
3 message includes a first control data that causes said one or more associated wireless  
4 units to implement fragmentation threshold in transmitting data packets to said access  
5 point.

1           10.      The machine readable medium of claim 9, wherein said message  
2 comprises a multicast data packet intended for said one or more associated wireless  
3 units.

1           11.      The machine readable medium of claim 9, wherein said message further  
2 includes a specified fragmentation threshold to be used by said one or more wireless  
3 units.

1           12.      The machine readable medium of claim 9, wherein said message further  
2 includes a second control data that causes said one or more wireless units to use request  
3 to send (RTS) and clear to send (CTS) in the transmission of data to said access point.

1           13.      A wireless unit, comprising:  
2            a wireless transceiver to communicate with an access point via a wireless  
3 transmission medium; and  
4            a logic circuit to receive a message from said access point by way of said  
5 wireless transceiver, wherein said message includes a first control data that causes said  
6 logic circuit to implement fragmentation threshold in transmitting data packets to said  
7 access point.

1        14. The wireless unit of claim 13, wherein said message comprises a  
2        multicast data packet.

1        15. The wireless unit of claim 13, wherein said message further includes a  
2        specified fragmentation threshold to be used by said logic circuit in implementing said  
3        fragmentation threshold.

1        16. The wireless unit of claim 13, wherein said message further includes a  
2        second control data that causes said logic circuit to use request to send (RTS) and clear  
3        to send (DTS) in the transmission of data to said access point.

1        17. In a wireless network system comprising a wired backbone network, an  
2        access point, and one or more associated wireless unit data coupled to the access point  
3        by way of a wireless transmission medium, a method of enabling request to send (RTS)  
4        and clear to send (CTS) data transmission in said one or more wireless units,  
5        comprising transmitting a message to said one or more wireless unit having a first  
6        control data that causes said one or more wireless units to implement RTS/CTS in  
7        transmitting data packets to said access point.

1        18. The method of claim 17, wherein said message comprises a multicast  
2        data packet intended for said one or more associated wireless units.

1        19. The method of claim 17, wherein said message further includes a second  
2        control data that causes said one or more wireless units to implement fragmentation  
3        threshold in transmitting data packets to said access point.

1        20. The method of claim 19, wherein said message further includes a  
2        specified fragmentation threshold to be used by said one or more wireless units.

1        21. An access point having a logic circuit to transmit a message to one or  
2        more associated wireless unit, wherein said message includes a first control data that

3 causes said one or more associated wireless units to implement RTS/CTS in  
4 transmitting data packets to said access point.

1        22. The access point of claim 21, wherein said message comprises a  
2 multicast data packet intended for said one or more associated wireless units.

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1        23. The access point of claim 21, wherein said message further includes a  
2 second control data that causes said one or more wireless units to implement  
3 fragmentation threshold in transmitting data packets to said access point.

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1        24. The access point of claim 23, wherein said message further includes a  
2 specified fragmentation threshold to be used by said one or more wireless units.

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1        25. A machine readable medium including a software routine to control a  
2 logic circuit to transmit a message to one or more associated wireless unit, wherein said  
3 message includes a first control data that causes said logic circuit to implement  
4 RTS/CTS in transmitting data packets to said access point.

1        26. The machine readable medium of claim 25, wherein said message  
2 comprises a multicast data packet intended for said one or more associated wireless  
3 units.

1        27. The machine readable medium of claim 25, wherein said message  
2 further includes a second control data that causes said one or more wireless units to  
3 implement fragmentation threshold in transmitting data packets to said access point.

1        28. The machine readable medium of claim 27, wherein said message  
2 further includes a specified fragmentation threshold to be used by said one or more  
3 wireless units.

1           29. A wireless unit, comprising:  
2            a wireless transceiver to communicate with an access point via a wireless  
3            transmission medium; and  
4            a logic circuit to receive a message from said access point by way of said  
5            wireless transceiver, wherein said message includes a first control data that causes said  
6            one or more associated wireless units use request to send (RTS) and clear to send  
7            (HTS) in the transmission of data to said access point.

1           30. The wireless unit of claim 29, wherein said message comprises a  
2            multicast data packet.

1           31. The wireless unit of claim 29, wherein said message further includes a  
2            second control data that causes said logic circuit to implement fragmentation threshold  
3            in transmitting data packets to said access point.

1           32. The wireless unit of claim 31, wherein said message further includes a  
2            specified fragmentation threshold to be used by said logic circuit in implementing  
3            fragmentation threshold,

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